



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY KANSAS 66115

075B
SITE Elliott Shooting Park
ID# MO098076823
BPEAK Prelim Assessment
OTHER
7585

July 5, 1985

MEMORANDUM

SUBJECT Preliminary Assessment - Elliott Shooting Park
Raytown, Missouri

FROM Paul E. Doherty *pe*
Chief, SINV/EP&R/ENSV

TO Robert L. Morby
Chief, SPFD

THRU William J. Keffer *WJ*
Chief, EP&R/ENSV

John C. Wicklund
Director, ENSV

David A. Wagoner
Director, WSTM

Attached for your review is a preliminary assessment of the above referenced facility

If you have any questions or comments, please call me at 236-3888

Attachments

RECEIVED

JUL 09 1985

SUPERFUND BRANCH

40164495



SUPERFUND RECORDS



ecology and environment, inc.

FAIRWAY WEST OFFICE BLDG 4350 JOHNSON DRIVE SHAWNEE MISSION KANSAS 66205 TEL 913-432 9961

International Specialists in the Environmental Sciences

TO Paul Doherty, RPO

FROM Clark Gunion, E&E/FIT

DATE June 25, 1985 (revised report, June 17, 1985)

SUBJECT Preliminary assessment of Elliott Shooting Park
in Raytown, Jackson County, Missouri
TDD #R-07-8503-05

In March, 1985 the Ecology & Environment Field Investigation Team (E&E/FIT) was tasked by the Region VII U S Environmental Protection Agency (EPA) to perform a preliminary assessment of the Elliott Shooting Park in Raytown, Missouri, EPA ID# MOD980968333 Under the authorization of Technical Directive Document (TDD) #R-07-8503-05, the E&E/FIT visited the site and conducted interviews with responsible parties

Elliott Shooting Park is a 'trap' and 'skeet' target range active since 1934 The site poses a potential threat to the environment through lead shot in the soil A citizen contacted the EPA Waste Compliance section concerned about the shooting park being sold for development The shooting park is owned by Boatman's Bank & Trust Co of Kansas City (Ref 9)

The almost thirty acre site includes a large two-story clubhouse with parking lot, a smaller one-story building used for workshop and storage purposes, and fifteen shooting stations, each with its own concrete slab (approx 10' x 10' and target shed (where targets are launched) Also included on the property is a large open field and a wooded area containing an open dump At a distance of approximately twenty yards north and on a line parallel with the shooting stations there is a large amount of target debris (clay pigeons) and lead shot covering the ground Materials deposited in the open dump include wooden pallets, sod, scrap metal, empty drums, brush, target boxes, furniture, etc (Ref 3)

The Elliott Shooting Park is located in Raytown, Missouri It is situated between the Blue and Little Blue Rivers There are residential areas bordering the site on the south, west and part of the north sides and commercial

businesses on the east and north sides. The legal description of the site is a part of the SW 1/4, SE 1/4, Sec 8, T 48N, R 32W. Geographic coordinates of the approximate center of the site are 38° 58' 05" N latitude, 94° 28' 20" W longitude (Ref 2)

Soils in the area include the Sibley-Urban land complex and the Higginsville-Urban land complex. The Sibley soils range from a dark brown, friable silt loam to a firm, silty clay loam. This is a well drained, deep soil with gentle 2 to 5 percent slopes. Permeability in the Sibley is moderate (0.6-2.0 in/hr), run-off is medium, water holding capacity is very high, and the seasonal high water table is approximately 6 feet below the surface. The Urban land refers to soils covered with concrete and asphalt (buildings, parking lots, roads, etc). The Higginsville Urban land complex is poorly drained with moderate 5 to 9 percent slopes. The soil ranges from a very dark brown friable silt loam at the surface to a grayish brown, mottled, friable silty clay loam in the substrate. Permeability is moderate (0.6-2.0 in/hr), runoff is rapid, water holding capacity is high, and the seasonal high water table is 1.5 to 3 feet deep under perched conditions (Ref 8)

There is no municipal use of water contained in the Raytown area. Water is brought in by the Jackson County Public Water Supply Co #2 and the Raytown Water Co. This water is mainly derived from Missouri River alluvium (Ref 7)

Lead (Pb) in elemental form is present in a large quantity at the Elliott Shooting Park. Particle size ranges from 0.8 inch in diameter to 0.95 inch. The particles are present over much of the open field area beyond the line of target debris and in the direction of fire (Ref 6)

Pb is soluble in mild acids such as nitric or hydrochloric. However, it should be considered to be insoluble and relatively immobile in this situation due to its mass and weight. According to the Encyclopedia of Occupational Health and Safety all Pb and Pb compounds should be considered hazardous (Ref 1)

On May 16, 1985 representatives of Boatman's Bank met with EPA and E&E/FIT officials to discuss the disposition of the Elliott Shooting Park. Boatman's Bank is interested in developing the land for multi-family homes. This development project would entail removing or relocating seven to eight feet of soil throughout the area. Prior to this redistribution however, the top two inches would be recycled

Page Three
TDD #R-07-8503-05

by a "lead mining" company experienced with this type of lead shot recycling. The shooting park will continue to operate as in the past until the end of 1985. At that time Boatman's Bank will coordinate with the Missouri Department of Natural Resources (MDNR) and the City of Raytown for any sampling that takes place. Prior to any development the EPA will issue an Administrative Order (AO) to Boatman's Bank detailing the work necessary to achieve acceptable lead removal. A tentative agreement was made between EPA and Boatman's to reach this goal (Refs 4 & 5).

CG ct

References

- 1 Encyclopaedia of Occupational Health and Safety, Volume 2, 3rd Edition, Parmeggiani, 1983
- 2 Lees Summit Quadrangle, Jackson County, Missouri, 7 5 Minute Series Topographic Map, U S Geological Survey, 1964
- 3 Personal Communication with Mikel Burton, Manager of Elliott Shooting Park, (816) 353-1382, (meeting March 29, 1985)
- 4 Personal Communication with Bill Dexter, Boatman's Raytown Bank, (816) 353-2255, (meeting March 29, 1985)
- 5 Personal Communication with Leon Innis, Boatman's Bank & Trust Co of Kansas City, (816) 221-2800 ex 5013, (meeting March 29, 1985)
- 6 Personal Communication with Don Pind, Pind's Gun Works, Gladstone, Mo , (816) 436-7662
- 7 Personal Communication with Richard Winner, City Engineer, Public Works Department, Raytown, Mo , (816) 737-0550
- 8 Soil Survey of Jackson County, Missouri, Soil Conservation Service, September 1984
- 9 U S Environmental Protection Agency CERCLA files, 1985

LEES SUMMIT QUADRANGLE
MISSOURI-JACKSON CO
7.5 MINUTE SERIES (TOPOGRAPHIC)

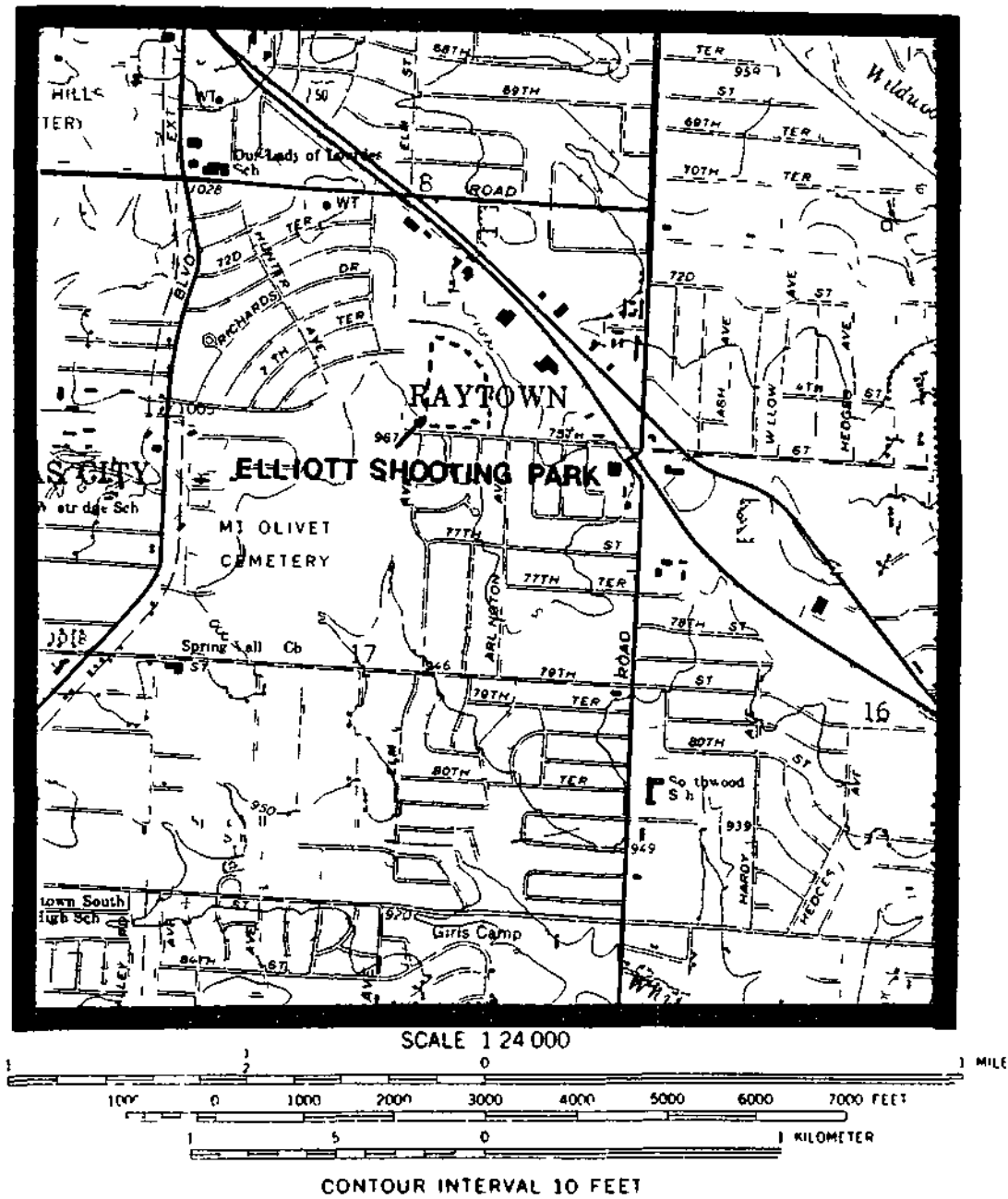
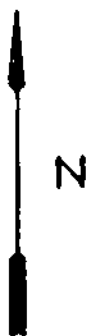
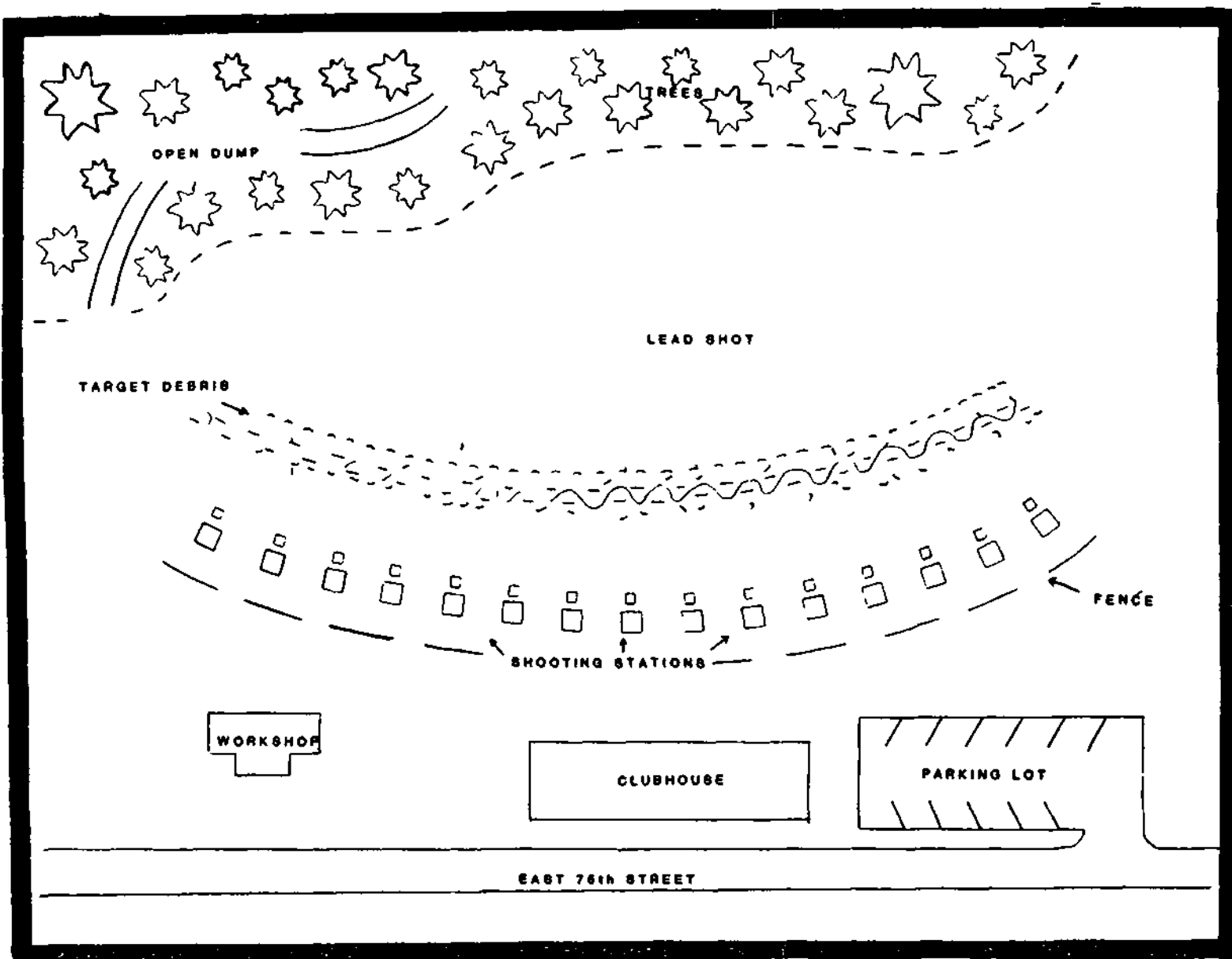


FIGURE 1



FIELD INVESTIGATIONS OF UNCONTROLLED HAZARDOUS WASTE SITES TASK REPORT TO THE EPA	
TITLE: FIGURE 2 ELLIOTT SHOOTING PARK RAYTOWN MO SITE SKETCH	
T D B R 07 0603-06	
ecology and environment inc. SHAWNEE MISSION KANSAS	
Date 8-88	Drawn by <u>CHB</u> Scale 1 in = 100 ft

TELEPHONE CONVERSATION RECORD

DATE OF CALL 3-20-85 TIME OF CALL AM

PERSONS INVOLVED

1) Clark Gunion E&E/FIT 2) Pind's Gun Works - Don Pind

3) 4)

PROJECT TITLE Elliott Shooting Park PROJECT NUMBER R-07-8503-05

CLIENT EPA

SUBJECT OF CALL Info on trap and skeet shooting

RESUME OF CONVERSATION

ID Clark Gunion E&E & Don Pind

I (Clark) ask about Trap & Skeet guns, they're type of load, maximum range
& what happens to the lead (Pb) when it is fired, and at what angle
(vertical) trap & skeet is practiced Don says that the type load is 7-9
shot, most common is 7 1/2, maximum range is about 300 yards, the lead
shot will spread to 30 square inches in 25 yards, double that for 50 yds ,
the size of the shot after it strikes the target is about 08 to 095
inch The vertical angle for skeet is approx 60° - 75°, the vertical
angle for trap is approx 30° - 45°

CC

TELEPHONE CONVERSATION RECORD

DATE OF CALL 3/20/85

TIME OF CALL AM

PERSONS INVOLVED

1) Clark Gunion

2) Boatman's 1st Nat'l Bank

3) _____

4) _____

Warren Sweeney

PROJECT TITLE Elliotts Shooting Park PROJECT NUMBER R-07-8503-05

CLIENT EPA

SUBJECT OF CALL access to property

RESUME OF CONVERSATION

I D Clark Gunion E&E & Warren Sweeney

I (Clark) ask Mr Sweeney if he has record of the foreclosure on the Elliott's Shooting Park, he says 11/82 I ask if Boatman's plans to sell or develop the land He (Warren) said they had an offer from the people who run the park now who are planning to develop Warren said that Leon Innis (also of Boatman's) is handling the loan and had more information. Warren said that he remembers sampling cores being done for lead (Pb) analysis, & that results required taking a foot of soil off the land to take care of Pb problem I ask for access to property & was granted by Warren Warren said that Mr Innis would be back tomorrow (3/21) and would have more information

CC _____

TELEPHONE CONVERSATION RECORD

DATE OF CALL 6-12-85 TIME OF CALL PM

PERSONS INVOLVED

1) Clark Gunion E&E/FIT 2) Richard Winner, Raytown City Engr
3) 4)

PROJECT TITLE Elliott Shooting Park PROJECT NUMBER R-07-8503-05

CLIENT EPA

SUBJECT OF CALL Water use in Raytown, Missouri

RESUME OF CONVERSATION

I (Clark) ask Mr Winner about water use in the Raytown, MO area He says
that the ground nor surface water in Raytown is used for drinking
(domestic) or industrial purposes Raytown's water is supplied by the
Jackson County Public Water Supply Co #2 and the Raytown Water Co The
water supply is mainly derived from Missouri River Alluvium

CC



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 SITE INFORMATION AND ASSESSMENT

I IDENTIFICATION

01 STATE MO 02 SITE NUMBER D980968333

II SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Elliott's Shooting Park		02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER 9500 E 75th			
03 CITY Raytown	04 STATE MO	05 ZIP CODE	06 COUNTY Jackson	07 COUNTY CODE	08 CONN. DIST.
09 COORDINATES LATITUDE 38° 58' 05" N LONGITUDE 94° 28' 20" W					

10 DIRECTIONS TO SITE (Starting from public road)
Go south on 350 Hwy to Raytown Rd go south to 75th turn right, go five blocks, shooting park on north side of 75th

III RESPONSIBLE PARTIES

01 OWNER (if known) Boatman's 1st Nat'l Bank (Leon Innis)		02 STREET (Business mailing residential) 1101 Baltimore			
03 CITY Kansas City	04 STATE MO	05 ZIP CODE 64106	06 TELEPHONE NUMBER 816 121-2800		
07 OPERATOR (known and diff. from owner) Mike Burton		08 STREET (Business mailing residential) 7500 E 75th			
09 CITY Raytown	10 STATE MO	11 ZIP CODE 64133	12 TELEPHONE NUMBER (816) 353-1382		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A PRIVATE <input type="checkbox"/> B FEDERAL (Agency name) <input type="checkbox"/> C STATE <input type="checkbox"/> D COUNTY <input type="checkbox"/> E MUNICIPAL <input type="checkbox"/> F OTHER (Specify) <input type="checkbox"/> G UNKNOWN					

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A RCRA 3001 DATE RECEIVED MONTH / DAY / YEAR ☐ B UNCONTROLLED WASTE SITE (RCRA 103) DATE RECEIVED MONTH / DAY / YEAR ☒ C NONE

IV CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 3 / 22 / 85 <input type="checkbox"/> NO MONTH DAY YEAR		BY (Check all that apply) <input type="checkbox"/> A EPA <input checked="" type="checkbox"/> B EPA CONTRACTOR <input type="checkbox"/> C STATE <input type="checkbox"/> D OTHER CONTRACTOR <input type="checkbox"/> E LOCAL HEALTH OFFICIAL <input type="checkbox"/> F OTHER CONTRACTOR NAME(S) Ecology & Environment, Inc.			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A ACTIVE <input type="checkbox"/> B INACTIVE <input type="checkbox"/> C UNKNOWN		03 YEARS OF OPERATION 1934 present BEGINNING YEAR ENDING YEAR <input type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT KNOWN OR ALLEGED
lead (Pb) from Trap & skeet shooting

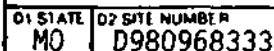
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Toxic Pb in soil

V PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2, Worksheet and Part 3, Description of Hazardous Conditions and Incidents)
☐ A HIGH (inspection required promptly) ☐ B MEDIUM (inspection required) ☒ C LOW (inspect on time available basis) ☐ D NONE (no further action needed; complete corrective action form)

VI INFORMATION AVAILABLE FROM

01 CONTACT Shelly Brodie	02 OF (Agency/Organization) EPA Superfund	03 TELEPHONE NUMBER 810 374-6531	
04 PERSON RESPONSIBLE FOR ASSESSMENT Clark Gunion	05 AGENCY	06 ORGANIZATION Ecology & Env	07 TELEPHONE NUMBER 013 432-9961
		08 DATE 3 / 22 / 85 MONTH DAY YEAR	



☐ I HIGHLY VOLATILE
☐ J EXPLOSIVE
☐ K REACTIVE
☐ L INCOMPATIBLE
☐ M NOT APPLICABLE

EPA FORM 2070-12 (7-81)



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I IDENTIFICATION

01 STATE 02 SITE NUMBER
MO D98096833

II HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

insoluble solid

01 ☐ B SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

insoluble solid

01 ☐ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

NA not small enough to become airborne contaminant

01 ☐ D FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

NA not flammable or explosive

01 ☐ E DIRECT CONTACT 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

unknown

01 ☒ F CONTAMINATION OF SOIL 30-35 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☒ ALLEGED
03 AREA POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

Definite lead content in soil due to firing range active since 1934

01 ☐ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

insoluble solid

01 ☐ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

none reported

01 ☐ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

none reported



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MO D980968333

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

Stressed vegetation back part of firing range in direction of shooting

01 ☐ K DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (in and name of sp. if sp.)

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

none reported

01 ☐ L CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

none reported

01 ☐ M UNSTABLE CONTAINMENT OF WASTES
(Spills, runoff, standing liquids, leaking drums)
03 POPULATION POTENTIALLY AFFECTED _____

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

insoluble and largely immobile

01 ☐ N DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

none reported

01 ☐ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

insoluble solid

01 ☐ P ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

None reported, however there is a wooded area to the north where dumping of various trash has occurred Metal, brush, cardboard, sod, empty barrels

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

The dump described above

III. TOTAL POPULATION POTENTIALLY AFFECTED unknown

IV. COMMENTS

V. SOURCES OF INFORMATION (for specific references, e.g., state file, sample analysis reports)